UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,211	01/29/2004	Kang Soo Seo	46500-000578/US	3350

30593   7590   03/22/2011
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ART UNIT	PAPER NUMBER
2481	

MAIL DATE	DELIVERY MODE
03/22/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/766,211	SEO ET AL.
	Examiner	Art Unit	
	HEATHER R. JONES	2481	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>17 November 2010 and 14 December 2010</u>.

2a)☒ This action is **FINAL**.　　　2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>13,18,24-27 and 56</u> is/are pending in the application.

　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>13,18,24-27 and 56</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on <u>29 January 2004</u> is/are: a)☒ accepted or b)☐ objected to by the Examiner.

　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

　a)☒ All　b)☐ Some * c)☐ None of:

　　1.☒ Certified copies of the priority documents have been received.

　　2.☐ Certified copies of the priority documents have been received in Application No. _____.

　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO/SB/08)
　　Paper No(s)/Mail Date <u>11/30/2010</u>.

4)☐ Interview Summary (PTO-413)
　　Paper No(s)/Mail. Date _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

Response to Arguments

1.   Applicant's arguments with respect to claims 13, 18, 24-27, and 56 have been

considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

2.   The medium claims 13 and 18 are considered to be statutory because they are

directed only to non-transitory computer readable mediums. The method claims 24 and

25 are considered to be statutory because managing reproduction of video data

containing stream files and playlist files having separate file extensions can not be

performed without the aid of a machine to process the video data. Apparatus claims 26,

27, and 56 are considered to be statutory because the specification does not disclose

that the apparatus can be implemented solely using software.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

4.   Claims 13, 18, and 24-27 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Kato et al. (U.S. Patent Application Publication 2002/0145702) in

view of Ando et al. (U.S. Patent 7,054,545) in view of Seo et al. (U.S. Patent Application

Publication 2001/0056580) in view of Jung et al. (U.S. Patent Application Publication

2004/0081434).

Regarding claim **13**, Kato et al. discloses a non-transitory computer

readable medium having a data structure for managing reproduction duration of

at least one still picture, comprising: a playlist area storing at least one playlist file

(Fig. 14), the at least one playlist file including at least one playitem and at least

one sub-playitem (Fig. 7), the at least one playitem indicating an in-point and out-

point of the first stream file to reproduce the presentation data, and the at least

one sub-playitem indicating an in-point and out-point of a second stream file to

reproduce the audio data (Figs. 3, 7, 32, and 40), and wherein the stream files,

the playlist file, and the clip information files are separate from each other and

have different file extensions (Fig. 14). However, Kato et al. fails to disclose a

data area storing first stream file including presentation data and second stream

file including audio data, the presentation data being divided into at least one still

picture unit, the at least one still picture unit including at least still picture and

associated graphic data; the playitem including first duration information

indicating whether to display the at least still picture in the at least one still picture

unit for one of a finite and an infinite period of time; and wherein the at least one

playitem further includes second duration information indicating a length of time

to display the at least one still picture when the first duration information indicates

to display the at least one still picture for a finite period of time, wherein the at

least one still picture and associated graphic data in the at least one still picture

unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses a non-transitory computer readable medium having a data structure for managing reproduction duration of still pictures, comprising: a data area storing first stream file including presentation data and a second stream file including audio data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture (Figs. 1, 4, and 11); a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping representation time information to address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11, lines 12-15), the playlist referencing the clip information file and including at least one playitem, the playitem indicating at least one of the still picture units to reproduce and providing duration information for display of the still picture in the still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first duration information indicates whether to display the at least one still picture in the at least one still picture unit for one of a finite and an infinite period of time, and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when the first duration information indicates to display the at least one still picture for a finite period of time (col. 39, lines 38-63 – audio and still information), wherein the audio data is reproduced independently from the last one still picture unit (col. 29, lines 14-24 - the system has a browsable and random feature of the slide show thereby meaning the audio and still picture units would be played back independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the duration information in the navigation information as disclosed by Ando et al. in the medium disclosed by Kato et al. in order for the playlist to perform more efficiently by knowing the duration of each playtime thereby creating an overall better viewing experience. However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio data is reproduced asynchronously and independently from the at least one still picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still picture unit including at least one still picture and associated graphic data, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Seo et al. reference, Seo et al. discloses the still picture unit including the at least one still picture and associated graphic data, and the

still picture and associated graphic data in the still picture unit configured to be reproduced synchronously (paragraph [0006]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the at least one still picture and graphic data reproduced synchronously as disclosed by Seo et al. in the medium disclosed by Kato in view of Ando et al. in order to include graphic data with the still picture to provide the viewer interactive contents so that the viewer could communicate with the contents in a desirable fashion. However, Kato et al. in view of Ando et al. in view of Seo et al. still fail to disclose that the at least one still picture and the associated graphic data in a still picture unit being reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be synchronized with the clip information in the playitem as disclosed by Jung et al. in the computer readable medium disclosed by Kato et al. in view of Ando et al. in view of Seo et al. in order to ensure the graphic data is synchronized with the correct corresponding clip information.

Regarding claim **18**, Kato in view of Ando et al. in view of Seo et al. in view of Jung et al. discloses all the limitations as previously discussed with respect to claim 13 including that the at least one still picture unit includes only one still picture (Ando et al.: Figs. 7, 8, and 10).

Regarding claim **24**, Kato et al. discloses a method of recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising: recording at least one playlist file on the recording medium (Fig. 14), the at least one playlist file including at least one playitem and at least one sub-playitem (Fig. 7), the at least one playitem indicating in-point and out-point of the first stream file to reproduce the presentation data, and the at least one sub-playitem indicating an in-point and out-point of a second stream file to reproduce the audio data (Figs. 3, 7, 32, and 40) , and wherein the stream files, the playlist file, and the clip information files are separate from each other and have different file extensions (Fig. 14). However, Kato et al. fails to disclose a data area storing first stream file including presentation data and second stream file including audio data, the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least still picture and associated graphic data; the playitem including first duration information indicating whether to display the at least still picture in the at least one still picture unit for one of a finite and an infinite period of time; and wherein the at least one playitem further includes second duration information indicating a length of time to display the at least one still picture when the first duration information indicates

to display the at least one still picture for a finite period of time, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses a method of recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising: a data area storing first stream file including presentation data and a second stream file including audio data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture (Figs. 1, 4, and 11); a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping representation time information to address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11, lines 12-15), the playlist referencing the clip information file and including at least one playitem, the playitem indicating at least one of the still picture units to reproduce and providing duration information for display of the still picture in the still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first duration information indicates whether to display the at least one still picture in the at least one still

picture unit for one of a finite and an infinite period of time, and wherein the at least one playitem further includes second duration information indicating a length of time to display the at least one still picture when the first duration information indicates to display the at least one still picture for a finite period of time (col. 39, lines 38-63 – audio and still information), wherein the audio data is reproduced independently from the last one still picture unit (col. 29, lines 14-24 - the system has a browsable and random feature of the slide show thereby meaning the audio and still picture units would be played back independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the duration information in the navigation information as disclosed by Ando et al. in the method disclosed by Kato et al. in order for the playlist to perform more efficiently by knowing the duration of each playtime thereby creating an overall better viewing experience. However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio data is reproduced asynchronously and independently from the at least one still picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still picture unit including at least one still picture and associated graphic data, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Seo et al. reference, Seo et al. discloses a method of recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising a still picture unit including the at least one still picture and associated graphic data, and the still picture and associated graphic data in the still picture unit configured to be reproduced synchronously (paragraph [0006]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the at least one still picture and graphic data reproduced synchronously as disclosed by Seo et al. in the method disclosed by Kato in view of Ando et al. in order to include graphic data with the still picture to provide the viewer interactive contents so that the viewer could communicate with the contents in a desirable fashion. However, Kato et al. in view of Ando et al. in view of Seo et al. still fail to disclose that the at least one still picture and the associated graphic data in a still picture unit being reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be

synchronized with the clip information in the playitem as disclosed by Jung et al.

in the method disclosed by Kato et al. in view of Ando et al. in view of Seo et al.

in order to ensure the graphic data is synchronized with the correct

corresponding clip information.

Regarding claim **25**, Kato et al. discloses a method of reproducing a data

structure for managing reproduction duration of at least one still picture recorded

on a recording medium, comprising: reproducing at least one playlist file from the

recording medium, the at least one playlist file including at least one playitem and

at least one sub-playitem in the playlist file (Fig. 7), the at least one playitem

indicating in-point and out-point of a first stream file to reproduce the presentation

data, and the at least one sub-playitem indicating an in-point and out-point of a

second stream file to reproduce the audio data (Figs. 3, 7, 32, and 40) , and

wherein the stream files, the playlist file, and the clip information files are

separate from each other and have different file extensions (Fig. 14). However,

Kato et al. fails to disclose a data area storing first stream file including

presentation data and second stream file including audio data, the presentation

data being divided into at least one still picture unit, the at least one still picture

unit including at least still picture and associated graphic data; the playitem

including first duration information indicating whether to display the at least still

picture in the at least one still picture unit for one of a finite and an infinite period

of time; and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a finite period of time, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses a method of reproducing a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising: a data area storing first stream file including presentation data and a second stream file including audio data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture (Figs. 1, 4, and 11); a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping representation time information to address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11, lines 12-15), the playlist referencing the clip information file and including at least one playitem, the playitem indicating at least one of the still picture units to reproduce and providing duration information for display of the still picture in the still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first duration information indicates whether to display the at least one still picture in

the at least one still picture unit for one of a finite and an infinite period of time,

and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a

finite period of time (col. 39, lines 38-63 – audio and still information), wherein the

audio data is reproduced independently from the last one still picture unit (col. 29,

lines 14-24 - the system has a browsable and random feature of the slide show

thereby meaning the audio and still picture units would be played back

independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to have included the duration information in the

navigation information as disclosed by Ando et al. in the method disclosed by

Kato et al. in order for the playlist to perform more efficiently by knowing the

duration of each playtime thereby creating an overall better viewing experience.

However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio

data is reproduced asynchronously and independently from the at least one still

picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still

picture unit including at least one still picture and associated graphic data,

wherein the at least one still picture and associated graphic data in the at least

one still picture unit are reproduced synchronously based on the at least one

playitem, and the audio data is reproduced independently from the at least one

still picture unit based on the at least one sub-playitem.

Referring to the Seo et al. reference, Seo et al. discloses a method of reproducing a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising a still picture unit including the at least one still picture and associated graphic data, and the still picture and associated graphic data in the still picture unit configured to be reproduced synchronously (paragraph [0006]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the at least one still picture and graphic data reproduced synchronously as disclosed by Seo et al. in the method disclosed by Kato in view of Ando et al. in order to include graphic data with the still picture to provide the viewer interactive contents so that the viewer could communicate with the contents in a desirable fashion. However, Kato et al. in view of Ando et al. in view of Seo et al. still fail to disclose that the at least one still picture and the associated graphic data in a still picture unit being reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be

synchronized with the clip information in the playitem as disclosed by Jung et al.

in the method disclosed by Kato et al. in view of Ando et al. in view of Seo et al.

in order to ensure the graphic data is synchronized with the correct

corresponding clip information.

Regarding claim **26**, Kato et al. discloses an apparatus for recording a

data structure for managing reproduction duration of at least one still picture on a

recording medium, comprising: a pickup configured to record data on the

recording medium; a controller configured to control the pickup to record at least

one playitem and at least one sub-playitem in the playlist file (Fig. 7), the at least

one playitem indicating in-point and out-point of a first stream file to reproduce at

least one still picture, and the at least one sub-playitem indicating an in-point and

out-point of a second stream file to reproduce the audio data (Figs. 3, 7, 32, and

40) , and wherein the stream files, the playlist file, and the clip information files

are separate from each other and have different file extensions (Fig. 14).

However, Kato et al. fails to disclose a data area storing first stream file including

presentation data and second stream file including audio data, the presentation

data being divided into at least one still picture unit, the at least one still picture

unit including at least still picture and associated graphic data; the playitem

including first duration information indicating whether to display the at least still

picture in the at least one still picture unit for one of a finite and an infinite period

of time; and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a finite period of time, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses an apparatus for recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising: a data area storing first stream file including presentation data and a second stream file including audio data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into at least one still picture unit, the at least one still picture unit including at least one still picture (Figs. 1, 4, and 11); a clip information area storing at least one clip information file, each clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping representation time information to address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11, lines 12-15), the playlist referencing the clip information file and including at least one playitem, the playitem indicating at least one of the still picture units to reproduce and providing duration information for display of the still picture in the still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first duration information indicates whether to display the at least one still picture in

the at least one still picture unit for one of a finite and an infinite period of time,

and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a

finite period of time (col. 39, lines 38-63 – audio and still information), wherein the

audio data is reproduced independently from the last one still picture unit (col. 29,

lines 14-24 - the system has a browsable and random feature of the slide show

thereby meaning the audio and still picture units would be played back

independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to have included the duration information in the

navigation information as disclosed by Ando et al. in the medium disclosed by

Kato et al. in order for the playlist to perform more efficiently by knowing the

duration of each playtime thereby creating an overall better viewing experience.

However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio

data is reproduced asynchronously and independently from the at least one still

picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still

picture unit including at least one still picture and associated graphic data,

wherein the at least one still picture and associated graphic data in the at least

one still picture unit are reproduced synchronously based on the at least one

playitem, and the audio data is reproduced independently from the at least one

still picture unit based on the at least one sub-playitem.

Referring to the Seo et al. reference, Seo et al. discloses an apparatus for recording a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising a still picture unit including the at least one still picture and associated graphic data, and the still picture and associated graphic data in the still picture unit configured to be reproduced synchronously (paragraph [0006]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the at least one still picture and graphic data reproduced synchronously as disclosed by Seo et al. in the medium disclosed by Kato in view of Ando et al. in order to include graphic data with the still picture to provide the viewer interactive contents so that the viewer could communicate with the contents in a desirable fashion. However, Kato et al. in view of Ando et al. in view of Seo et al. still fail to disclose that the at least one still picture and the associated graphic data in a still picture unit being reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be

synchronized with the clip information in the playitem as disclosed by Jung et al.
in the apparatus disclosed by Kato et al. in view of Ando et al. in view of Seo et
al. in order to ensure the graphic data is synchronized with the correct
corresponding clip information.

Regarding claim **27**, Kato et al. discloses an apparatus for reproducing a
data structure for managing reproduction duration of at least one still picture
recorded on a recording medium, comprising: a pickup configured to record data
on the recording medium (Fig. 1); a controller configured to control the pickup to
reproduce at least one playlist and at least one clip information file area of the
recording medium, the clip information file being associated with at least one
stream file stored in a data area, the clip information file providing a map for the
associated stream file, each map mapping representation time information to
address information for the associated stream file (Figs. 2, 14; paragraph [0195]);
reproducing at least one playitem and at least one sub-playitem in the playlist file
(Fig. 7), the at least one playitem indicating in-point and out-point of a first stream
file to reproduce at least one still picture, and the at least one sub-playitem
indicating an in-point and out-point of a second stream file to reproduce the audio
data (Figs. 3, 7, 32, and 40), and wherein the stream files, the playlist file, and
the clip information files are separate from each other and have different file
extensions (Fig. 14).   However, Kato et al. fails to disclose a data area storing
first stream file including presentation data and second stream file including
audio data, the presentation data being divided into at least one still picture unit,

the at least one still picture unit including at least still picture and associated

graphic data; the playitem including first duration information indicating whether

to display the at least still picture in the at least one still picture unit for one of a

finite and an infinite period of time; and wherein the at least one playitem further

includes second duration information indicating a length of time to display the at

least one still picture when the first duration information indicates to display the at

least one still picture for a finite period of time, wherein the at least one still

picture and associated graphic data in the at least one still picture unit are

reproduced synchronously based on the at least one playitem, and the audio

data is reproduced independently from the at least one still picture unit based on

the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses an apparatus

for reproducing a data structure for managing reproduction duration of at least

one still picture on a recording medium, comprising: a data area storing first

stream file including presentation data and a second stream file including audio

data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into

at least one still picture unit, the at least one still picture unit including at least

one still picture (Figs. 1, 4, and 11); a clip information area storing at least one

clip information file, each clip information file being associated with at least one

stream file stored in a data area, the clip information file providing a map for the

associated stream file, each map mapping representation time information to

address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-

63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11,

lines 12-15), the playlist referencing the clip information file and including at least

one playitem, the playitem indicating at least one of the still picture units to

reproduce and providing duration information for display of the still picture in the

still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first

duration information indicates whether to display the at least one still picture in

the at least one still picture unit for one of a finite and an infinite period of time,

and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a

finite period of time (col. 39, lines 38-63 – audio and still information), wherein the

audio data is reproduced independently from the last one still picture unit (col. 29,

lines 14-24 - the system has a browsable and random feature of the slide show

thereby meaning the audio and still picture units would be played back

independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to have included the duration information in the

navigation information as disclosed by Ando et al. in the medium disclosed by

Kato et al. in order for the playlist to perform more efficiently by knowing the

duration of each playtime thereby creating an overall better viewing experience.

However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio

data is reproduced asynchronously and independently from the at least one still

picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still

picture unit including at least one still picture and associated graphic data,

wherein the at least one still picture and associated graphic data in the at least

one still picture unit are reproduced synchronously based on the at least one

playitem, and the audio data is reproduced independently from the at least one

still picture unit based on the at least one sub-playitem.

      Referring to the Seo et al. reference, Seo et al. discloses an apparatus for

reproducing a data structure for managing reproduction duration of at least one

still picture on a recording medium, comprising a still picture unit including the at

least one still picture and associated graphic data, and the still picture and

associated graphic data in the still picture unit configured to be reproduced

synchronously (paragraph [0006]).

      Therefore, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to have the at least one still picture and graphic

data reproduced synchronously as disclosed by Seo et al. in the medium

disclosed by Kato in view of Ando et al. in order to include graphic data with the

still picture to provide the viewer interactive contents so that the viewer could

communicate with the contents in a desirable fashion. However, Kato et al. in

view of Ando et al. in view of Seo et al. still fail to disclose that the at least one

still picture and the associated graphic data in a still picture unit being

reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be synchronized with the clip information in the playitem as disclosed by Jung et al. in the apparatus disclosed by Kato et al. in view of Ando et al. in view of Seo et al. in order to ensure the graphic data is synchronized with the correct corresponding clip information.

Regarding claim **56**, Kato et al. discloses an apparatus for reproducing a data structure for managing reproduction duration of at least one still picture recorded on a recording medium, comprising: a pickup configured to record data on the recording medium (Fig. 1); a controller configured to control the pickup to reproduce at least one playlist and at least one clip information file area of the recording medium, the clip information file being associated with at least one stream file stored in a data area, the clip information file providing a map for the associated stream file, each map mapping representation time information to address information for the associated stream file (Figs. 2, 14; paragraph [0195]); reproducing at least one playitem and at least one sub-playitem in the playlist file (Fig. 7), the at least one playitem indicating in-point and out-point of a first stream

file to reproduce at least one still picture, and the at least one sub-playitem

indicating an in-point and out-point of a second stream file to reproduce the audio

data (Figs. 3, 7, 32, and 40), and wherein the stream files, the playlist file, and

the clip information files are separate from each other and have different file

extensions (Fig. 14).   However, Kato et al. fails to disclose a data area storing

first stream file including presentation data and second stream file including

audio data, the presentation data being divided into at least one still picture unit,

the at least one still picture unit including at least still picture and associated

graphic data; the playitem including first duration information indicating whether

to display the at least still picture in the at least one still picture unit for one of a

finite and an infinite period of time; and wherein the at least one playitem further

includes second duration information indicating a length of time to display the at

least one still picture when the first duration information indicates to display the at

least one still picture for a finite period of time, wherein the at least one still

picture and associated graphic data in the at least one still picture unit are

reproduced synchronously based on the at least one playitem, and the audio

data is reproduced independently from the at least one still picture unit based on

the at least one sub-playitem.

Referring to the Ando et al. reference, Ando et al. discloses an apparatus

for reproducing a data structure for managing reproduction duration of at least

one still picture on a recording medium, comprising: a data area storing first

stream file including presentation data and a second stream file including audio

data (Figs. 1 and 7; col. 5, lines 29-33), the presentation data being divided into

at least one still picture unit, the at least one still picture unit including at least

one still picture (Figs. 1, 4, and 11); a clip information area storing at least one

clip information file, each clip information file being associated with at least one

stream file stored in a data area, the clip information file providing a map for the

associated stream file, each map mapping representation time information to

address information for the associated stream file (Figs. 3 and 4; col. 7, lines 7-

63; col. 9, lines 1-33); and a navigation area storing at least one playlist (col. 11,

lines 12-15), the playlist referencing the clip information file and including at least

one playitem, the playitem indicating at least one of the still picture units to

reproduce and providing duration information for display of the still picture in the

still picture unit (Figs. 7, 8, 10, and 11; col. 39, lines 38-50); wherein the first

duration information indicates whether to display the at least one still picture in

the at least one still picture unit for one of a finite and an infinite period of time,

and wherein the at least one playitem further includes second duration

information indicating a length of time to display the at least one still picture when

the first duration information indicates to display the at least one still picture for a

finite period of time (col. 39, lines 38-63 – audio and still information), wherein the

audio data is reproduced independently from the last one still picture unit (col. 29,

lines 14-24 - the system has a browsable and random feature of the slide show

thereby meaning the audio and still picture units would be played back

independent of one another).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the duration information in the navigation information as disclosed by Ando et al. in the medium disclosed by Kato et al. in order for the playlist to perform more efficiently by knowing the duration of each playtime thereby creating an overall better viewing experience. However, Kato et al. in view of Ando et al. still fail to disclose wherein the audio data is reproduced asynchronously and independently from the at least one still picture unit. However, Kato in view of Ando et al. fail still fail to disclose the still picture unit including at least one still picture and associated graphic data, wherein the at least one still picture and associated graphic data in the at least one still picture unit are reproduced synchronously based on the at least one playitem, and the audio data is reproduced independently from the at least one still picture unit based on the at least one sub-playitem.

Referring to the Seo et al. reference, Seo et al. discloses an apparatus for reproducing a data structure for managing reproduction duration of at least one still picture on a recording medium, comprising a still picture unit including the at least one still picture and associated graphic data, and the still picture and associated graphic data in the still picture unit configured to be reproduced synchronously (paragraph [0006]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the at least one still picture and graphic data reproduced synchronously as disclosed by Seo et al. in the medium

disclosed by Kato in view of Ando et al. in order to include graphic data with the still picture to provide the viewer interactive contents so that the viewer could communicate with the contents in a desirable fashion. However, Kato et al. in view of Ando et al. in view of Seo et al. still fail to disclose that the at least one still picture and the associated graphic data in a still picture unit being reproduced synchronously based on the at least one playitem.

Referring to the Jung et al. reference, Jung et al. discloses a computer-readable medium comprising that the at least one still picture and the associated graphic data (subtitle) in a still picture unit being reproduced synchronously based on the at least one playitem (Fig. 18; paragraph [0152] - the subtitles are linked to the playitem to be reproduced together).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the graphic data that is to be synchronized with the clip information in the playitem as disclosed by Jung et al. in the apparatus disclosed by Kato et al. in view of Ando et al. in view of Seo et al. in order to ensure the graphic data is synchronized with the correct corresponding clip information.

Conclusion

5.   Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HEATHER R. JONES whose telephone number is

(571)272-7368. The examiner can normally be reached on Mon. - Thurs.: 7:00 am -

4:30 pm, and every other Fri.: 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Peter-Anthony Pappas can be reached on 571-272-7646. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Heather R Jones
Examiner
Art Unit 2481

HRJ
March 12, 2011

/Peter-Anthony Pappas/
Supervisory Patent Examiner, Art Unit 2481